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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,139	10/787,139 02/27/2004		Yoshinobu Yamakita	038440-0106 4646	
22428	7590	10/06/2005		EXAMINER	
FOLEY AN	ND LARI	DNER	SMITH, S	SMITH, SHEILA B	
3000 K STR	EET NW		ART UNIT	PAPER NUMBER	
WASHING	ron, dc	20007	2681		

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	• •						
Office Action Summary	10/787,139	YAMAKITA, YOSHINOBU					
emoc Acadin Cummary	Examiner	Art Unit					
The MAIL ING DATE of this account of the	Sheila B. Smith	2681					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>07 Fe</u>	hruary 2004						
· _ · · · <del> </del>	action is non-final.						
3) Since this application is in condition for allowant		secution as to the merits is					
<i>,</i> —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.	_						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·						
6) 🗖 Claim(s) <u>1,2,4 and 5</u> is/are rejected.	· · · — · · · · · · · · · · · · · · · ·						
7) Claim(s) <u>3</u> is/are objected to.							
	Claim(s) are subjected to:  Claim(s) are subject to restriction and/or election requirement.						
	oloolion requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	·						
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/27/04.	5)  Notice of Informal P. 6)  Other:	atent Application (PTO-152)					

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Dam et al. (U.S. Patent Publication Number 2001/0016504).

Regarding claim 1, Dam et al. discloses essentially all the claimed invention as set fourth in the instant application, further Dam et al. discloses a method and system for handling radio signals in a radio base station. In addition Dam et al. discloses a base station apparatus, comprising: a plurality of connectors (beams 1-8) used for connection to a plurality of antennas (460) respectively; a plurality of transmission/reception circuits (420) performing transmission/reception using said plurality of antennas (460); and an antenna switching unit (490) provided between said plurality of connectors (beams 1-8) and said plurality of transmission/reception circuits (420) and modifying (which reads on switching) a connection relation between said plurality of connectors (beams) and said plurality of transmission/reception circuits (420) (which is exhibited in figure 7 and disclosed in paragraph 0033).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2,4,5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dam et al. in view of Martin et al. (U.S. Patent Number 6,397,083).

Regarding claims 2 and 4, Dam et al. discloses everything as applied above, additionally Dam et al. discloses a plurality of antennas (450, 460), however Dam et al. fails to disclose a plurality of antennas are divided into a plurality of groups, a number of which is equal to a number of said plurality of transmission/reception circuits, said base station apparatus further comprises a control unit, and when said antenna switching unit is at a initial state, said control unit obtains properties of said plurality of antennas via said plurality of connectors, determines to which of said plurality of groups each of said plurality of antennas should belong, based on said obtained properties, and causes a state of said antenna switching unit to make a transition from said initial state to a use state suitable for use.

In the same field of endeavor, Martin et al. discloses bootstrapped, piecewise asymptotic directivity pattern control mechanism setting weighting coefficients of phased array antenna. In addition Martin et al. discloses the use of a plurality of antennas are divided into a plurality of groups (which reads on column 5 lines 39-41), a number of which is equal to a number of said plurality of transmission/reception circuits (which reads on column 5 lines 42-45), said base station apparatus further comprises a control unit (300), and when said antenna switching unit is

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at a initial state, said control unit obtains properties of said plurality of antennas via said plurality of connectors (which reads on weighting circuit), determines to which of said plurality of groups each of said plurality of antennas should belong, based on said obtained properties, and causes a state of said antenna switching unit to make a transition from said initial state to a use state suitable for use (which reads on column 5 lines 36-65).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to improve Dam et al. by modifying method and system for handling radio signals in a radio base station with a plurality of antennas are divided into a plurality of groups, a number of which is equal to a number of said plurality of transmission/reception circuits, said base station apparatus further comprises a control unit, and when said antenna switching unit is at a initial state, said control unit obtains properties of said plurality of antennas via said plurality of connectors, determines to which of said plurality of groups each of said plurality of antennas should belong, based on said obtained properties, and causes a state of said antenna switching unit to make a transition from said initial state to a use state suitable for use, as taught by Martin et al. for the purpose of providing a significant amount of system flexibility and improved efficiency of system capacity.

**Regarding claim 5**, Dam et al. discloses everything as applied above, additionally Dam et al. discloses wherein said plurality of elements are resistance elements (which reads on paragraph 0011).

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Allowable Subject Matter

3. Claim 3 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sheila B. Smith whose telephone number is (571)272-7847. The

examiner can normally be reached on Monday-Thursday 6:00 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Smith S. October 1, 2005

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